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PDT 8100 Series with Intel XScale™ Technology

symbol®

PDT 8100 Series with Intel XScale Technology

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Symbol Technologies, Inc.
One Symbol Plaza
Holtsville, N.Y. 11742-1300
http://www.symbol.com

Patents

This product is covered by one or more of the following U.S. and foreign Patents:
U.S. Patent No. 4,593,186; 4,603,262; 4,607,156; 4,652,750; 4,673,805; 4,736,095; 4,758,717; 4,760,248; 4,806,742; 4,816,660; 4,845,350; 4,896,026; 4,897,532; 4,923,281; 4,933,538; 4,992,717; 5,015,833; 5,017,765; 5,021,641; 5,029,183; 5,047,617; 5,103,461; 5,113,445; 5,130,520; 5,140,144; 5,142,550; 5,149,950; 5,157,687; 5,168,148; 5,168,149; 5,180,904; 5,216,232; 5,229,591; 5,230,088; 5,235,167; 5,243,655; 5,247,162; 5,250,791; 5,250,792; 5,260,553; 5,262,627; 5,262,628; 5,266,787; 5,278,398; 5,280,162; 5,280,163; 5,280,164; 5,280,498; 5,304,786; 5,304,788; 5,306,900; 5,324,924; 5,337,361; 5,367,151; 5,373,148; 5,378,882; 5,396,053; 5,396,055; 5,399,846; 5,408,081; 5,410,139; 5,410,140; 5,412,198; 5,418,812; 5,420,411; 5,436,440; 5,444,231; 5,449,891; 5,449,893; 5,468,949; 5,471,042; 5,478,998; 5,479,000; 5,479,002; 5,479,441; 5,504,322; 5,519,577; 5,528,621; 5,532,469; 5,543,610; 5,545,889; 5,552,592; 5,557,093; 5,578,810; 5,581,070; 5,589,679; 5,589,680; 5,608,202; 5,612,531; 5,619,028; 5,627,359; 5,637,852; 5,664,229; 5,668,803; 5,675,139; 5,693,929; 5,698,835; 5,705,800; 5,714,746; 5,723,851; 5,734,152; 5,734,153; 5,742,043; 5,745,794; 5,754,587; 5,762,516; 5,763,863; 5,767,500; 5,789,728; 5,789,731; 5,808,287; 5,811,785; 5,811,787; 5,815,811; 5,821,519; 5,821,520; 5,823,812; 5,828,050; 5,848,064; 5,850,078; 5,861,615; 5,874,720; 5,875,415; 5,900,617; 5,902,989; 5,907,146; 5,912,450; 5,914,478; 5,917,173; 5,920,059; 5,923,025; 5,929,420; 5,945,658; 5,945,659; 5,946,194; 5,959,285; 6,002,918; 6,021,947; 6,029,894; 6,031,830; 6,036,098; 6,047,892; 6,050,491; 6,053,413; 6,056,200; 6,065,678; 6,067,297; 6,082,621; 6,084,528; 6,088,482; 6,092,725; 6,101,483; 6,102,293; 6,104,620; 6,114,712; 6,115,678; 6,119,944; 6,123,265; 6,131,814; 6,138,180; 6,142,379; 6,172,478; 6,176,428; 6,178,426; 6,186,400; 6,188,681; 6,209,788; 6,209,789; 6,216,951; 6,220,514; 6,243,447; 6,244,513; 6,247,647; 6,308,061; 6,250,551; 6,295,031; 6,308,061; 6,308,892; 6,321,990; 6,328,213; 6,330,244; 6,336,587; 6,340,114; 6,340,115; 6,340,119; 6,348,773; 6,380,949; 6,394,355; D305,885; D341,584; D344,501; D359,483; D362,453; D363,700; D363,918; D370,478; D383,124; D391,250; D405,077; D406,581; D414,171; D414,172; D418,500; D419,548; D423,468; D424,035; D430,158; D430,159; D431,562; D436,104.
Invention No. 55,358; 62,539; 69,060; 69,187, NI-068564 (Taiwan); No. 1,601,796; 1,907,875; 1,955,269 (Japan); European Patent 367,299; 414,281; 367,300; 367,298; UK 2,072,832; France 81/03938; Italy 1,138,713
rev. 06/02

Introduction

Congratulations on purchasing a Symbol Technologies' PDT 8100 Series Terminal with Intel XScale™ technology! Its unique combination of features make this product superior for use in a wide range of applications. These features include:

- Intel XScale application processor technology
- Personal Information Management software
- Microsoft® Windows® Pocket PC 2002 operating system
- RF communication via Symbol's Spectrum24® Wireless Local Area Network (WLAN PDT 814x)
- 1-Dimensional scanning capability
- Color TFT LCD display
- 28-key, 37-key, or 47-key keyboard
- "Quick Grip" Trigger Handle Interface
- Touch screen
- Printing support
- IrDA-compliant interface for printing and communications.

About This Guide

This guide describes how to set up and use the terminal. The terms *PDT 8100 Series with Intel XScale technology* and *terminal* refer to the batch and Spectrum24 versions of the terminal. Topics covered include:

- *Accessories* on page 2
- *Parts of the Terminal* on page 3
- *Getting Started* on page 5
- *Inserting a Compact Flash Card* on page 5
- *Removing a Compact Flash Card* on page 6
- *Installing the Battery* on page 7
- *Charging the Battery* on page 8
- *15-Pin Serial Port Connector* on page 9
- *Attaching the Trigger Handle ("Quick Grip" compatible terminals only)* on page 9
- *Attaching the Handstrap* on page 10
- *Starting the Terminal* on page 10
- *Aligning the Screen* on page 11
- *Initiating a Network Connection* on page 11
- *Controlling the Backlight* on page 11
- *Using a Headset* on page 12
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- *Host Communications* on page 25
- *Maintaining the Terminal* on page 26
- *Troubleshooting* on page 27
- *END-USER LICENSE AGREEMENT* on page 32
- *Regulatory Information* on page 35
- *Warranty*
- *Service Information*.

The *PDT 8100 Series with Intel XScale™ Technology Product Reference Guide* (p/n 72-57773-xx) details the applications available for the terminal. For the latest version of the Product Reference Guide, and for Quick Reference Guide translations, go to: http://www.symbol.com/manuals.

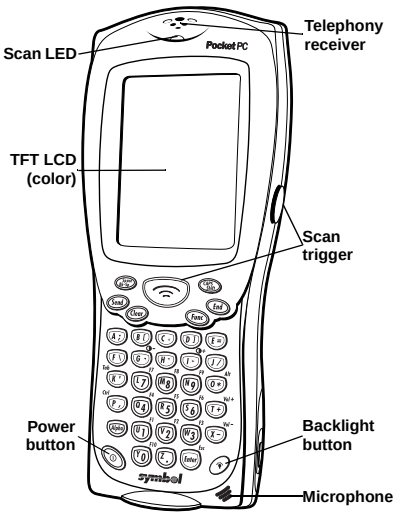
Accessories

Each terminal requires one 1950 mAh lithium-ion battery. The following optional accessories are available from Symbol Technologies:

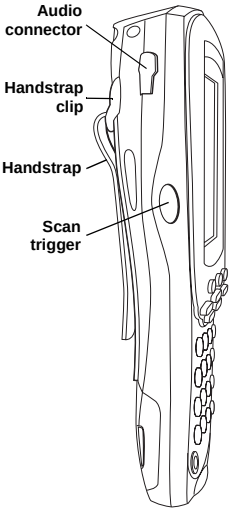
- 3000 mAh lithium-ion battery with battery door
- Cables:
  - Serial/Charging cable
  - DEX cable
  - Autocharge cable
  - Snap-on printer cables
- Carrying case
- Clip on modem module
- Four-slot charging only cradle
- Four-slot Ethernet cradle
- Headset
- IrDA compliant printers
- Magnetic stripe reader
- Serial charging cradle
- Single-slot modem and charging cradle
- Snap on “Quick Grip” Trigger Handle
- Stylus for performing pen functions
- UBC battery adapters
- Vehicle cradle

Parts of the Terminal

FRONT VIEW

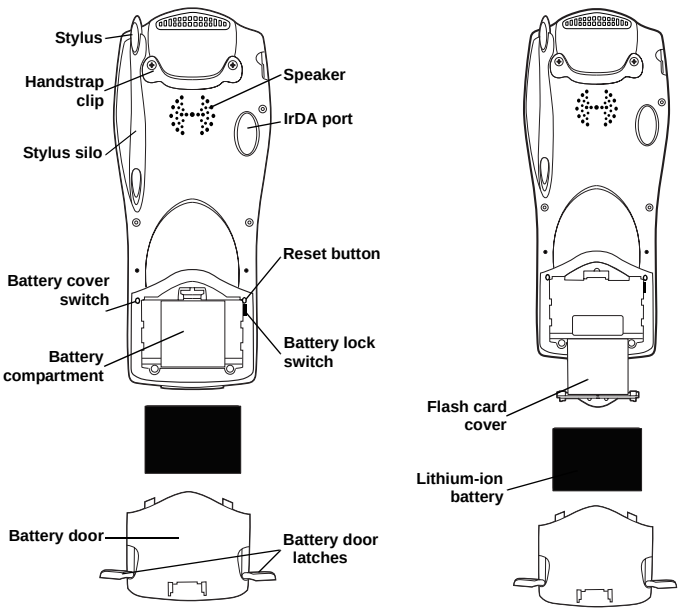


SIDE VIEW

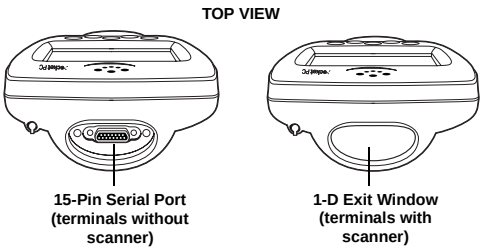


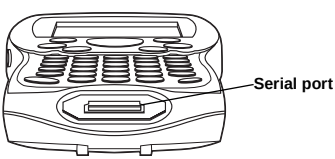
Parts of the Terminal (continued)

BACK VIEW



Parts of the Terminal (continued)





Getting Started

Before you can use your terminal, perform these basic setup procedures:

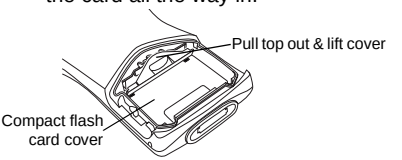
- Insert the Compact Flash card (optional).
- Install and charge the battery.
- Start the PDT 81xx.
- Initiate the network connection (PDT 8146 only).

Inserting a Compact Flash Card

The terminal contains a slot for a standard compact flash card, which includes a locking mechanism that prevents the card from coming loose if the terminal is dropped. Insert the compact flash card carefully to ensure it engages this locking mechanism.

1. Open the battery door and remove the battery.

2. Remove the flash card cover at the top of the battery compartment by pulling the top out, and lifting the cover up.
3. Insert the flash card into the compartment with the pins facing forward, and the main label facing down. It only fits one way. The two metal tabs on the locking mechanism will prevent you from pushing the card all the way in.



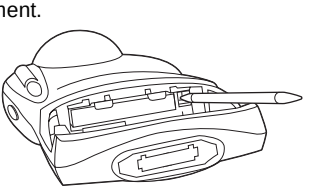
4. To fit the card into place, push down and in at the same time, so that the lip of the compact flash card slips *under* the tabs of the locking mechanism.
5. Replace the flash card cover by inserting the bottom first, and pressing the top in.

Note: After you insert or remove a compact flash card, you must replace the flash card cover or the terminal will not function.

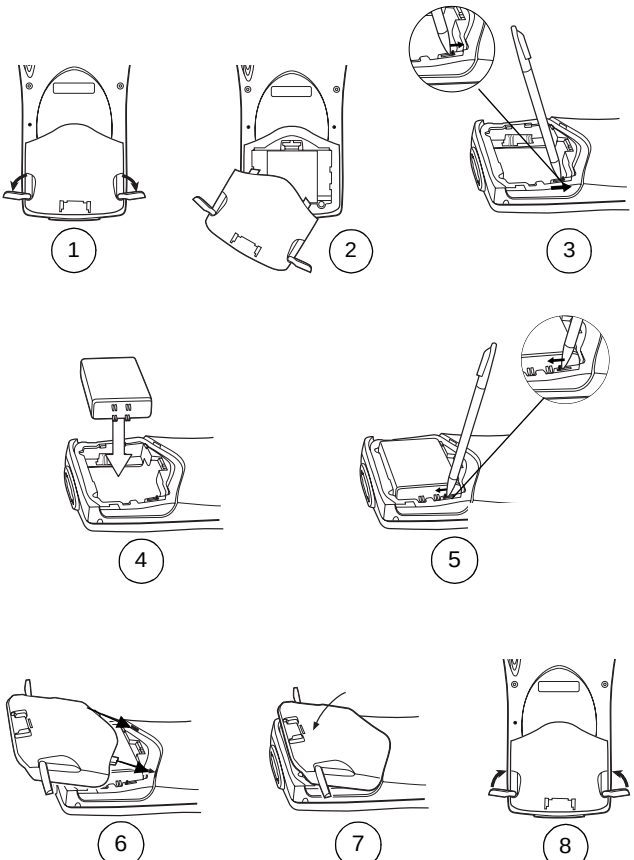
6. Reinsert the battery and battery door.
7. Perform a soft reset (see *Performing a Soft Reset* on page 24).

Removing a Compact Flash Card

1. Open the battery door and remove the battery and flash card cover.
2. Use the stylus to press the flash card release button inside the flash card compartment.



Installing the Battery



Caution: Do not expose the battery to temperatures in excess of 140°F (60°C). Do not disassemble, incinerate, or short circuit the battery.

Charging the Battery

Charging the Main Battery and Memory Backup Battery for the First Time

Before using your terminal for the first time, charge the lithium-ion battery in the terminal for a minimum of 12 hours, with the terminal off. Charge the battery using the Serial/Charging Cable or the appropriate cradle (1950 mAh battery only). This is the time needed to fully charge the main battery and the internal backup battery in a terminal that is off.

Recharging the Main Battery

To recharge the 1950 mAh lithium-ion battery in the terminal, turn the terminal off and charge the battery for approximately four hours using the Serial/Charging Cable or the appropriate cradle.

To recharge the optional 3000 mAh lithium-ion battery in the terminal, turn the terminal off and charge the battery for approximately six hours using only the Serial/Charging Cable.

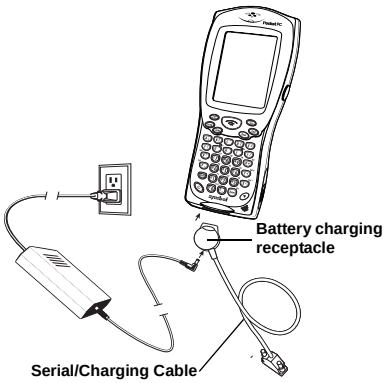
Note: The battery can also be recharged separately in the CRD 8100-1100S Single Slot Charging Cradle (1950 mAh battery only), VCD 8100-R001 Vehicle Charging Cradle (1950 mAh battery only), or UBC battery adapter (1950 mAh and 3000 mAh battery).

Charging the Battery Using a Cradle (1950 mAh battery only)

You can charge the battery in the terminal using the CRD 8100-4000C Four Slot Charge Cradle, CRD 8100-1000M Single Slot Modem Cradle, VCD 8100-R001 Vehicle Charging Cradle, CRD 8100-1100S Single Slot Charging Cradle, or CRD 8100-4000E Four Slot Ethernet Cradle. For more information, see the set up instructions in the respective Quick Reference Guides.

Charging the Battery Using the Serial/Charging Cable

1. Insert the battery charging receptacle into the bottom of the terminal.
2. Plug the power cable into a wall outlet.
3. Plug the other end of the power cable into the battery charging receptacle.



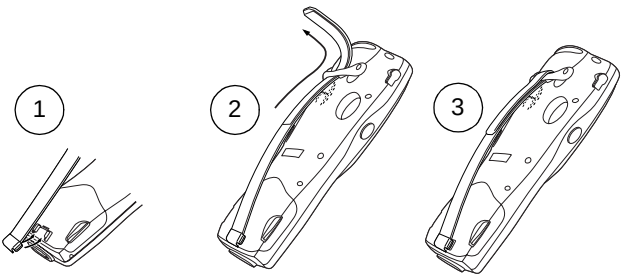
15-Pin Serial Port Connector

To connect to the Micro-D RS-232 port at the top of the terminal, use an ITT Cannon brand mil-spec connector (MDM-15SSB) with captivated jack screws (mil p/n M83513/5-6) to protect the connector's contacts from damage during insertion and removal.

Attaching the Trigger Handle ("Quick Grip" compatible terminals only)

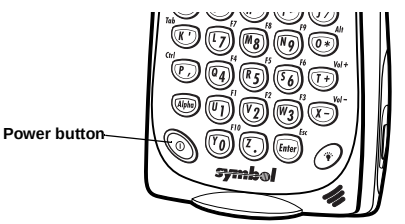
For information about attaching and using the scanning Trigger Handle, refer to the *TRG 8100 Trigger Handle Quick Reference Guide* (p/n 72-55949-xx).

Attaching the Handstrap



Starting the Terminal

Press the red Power button to turn the terminal on and off.



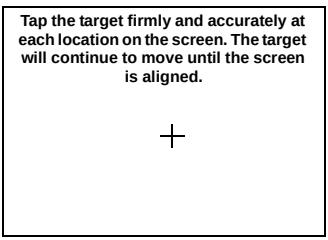
As the terminal initializes its Flash File System, the Symbol splash screen displays for about 30 seconds.

When the Welcome screen appears, tap anywhere on the screen to continue to the Align screen. Note that these screens also appear every time you perform a hard reset.

Aligning the Screen

To align your terminal so the cursor on the touch screen aligns with the tip of your stylus:

1. Remove the stylus from its storage silo on the back of the terminal.
2. Tap the center of each target that appears on the screen with the tip of the stylus.


Tap the target firmly and accurately at each location on the screen. The target will continue to move until the screen is aligned.

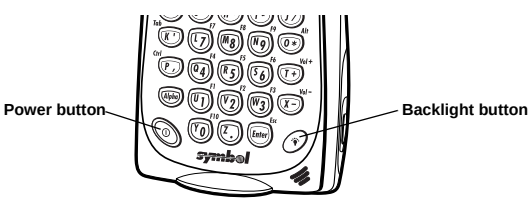
3. Follow the directions on the screen which explain how to use the stylus and pop-up menus, and allow you to set your city and time zone.

Initiating a Network Connection

Before using the terminal, set up the Spectrum24 network connection. Refer to the *PDT 8100 Series with Intel XScale™ Technology Product Reference Guide* for setup instructions.

Controlling the Backlight

Press the Backlight button to turn the display and keyboard backlights on and off. Press once to turn the display backlight on, press again to turn the keyboard backlight on, and press a third time to turn both backlights off.



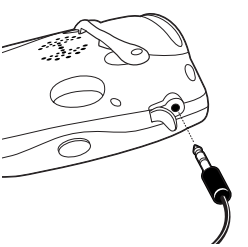
Adjusting the Backlight

Keyboard	Keys	Description
28-key	Function + “1”	Decrease display backlight (decrease brightness)
	Function + “2”	Increase display backlight (increase brightness)
37-key	Function + “G”	Decrease display backlight (decrease brightness)
	Function + “I”	Increase display backlight (increase brightness)
47-key	Function + “Y”	Decrease display backlight (decrease brightness)
	Function + “W”	Increase display backlight (increase brightness)
Note: Backlight adjustments can be made on displays only. Keyboard backlights cannot be adjusted.		

Using a Headset

If your terminal is equipped with an audio connector, a headset may be installed for telephony operation.

To use the headset (p/n VXI61-SYB), plug the headset jack into the audio connector on the side of the terminal.

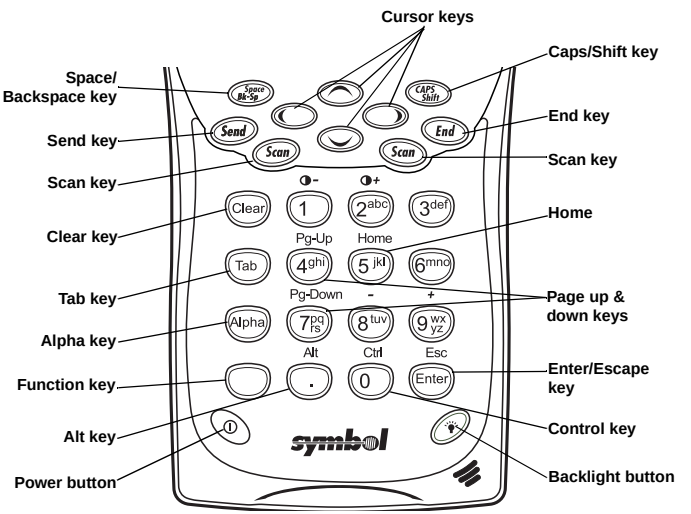


Using the Keyboard

Note: Key functions can be changed by an application. Your keyboard may not function exactly as described. For more detailed keyboard information, refer to the *PDT 8100 Series with Intel XScale™ Technology Product Reference Guide*.

Using the 28-Key Keyboard

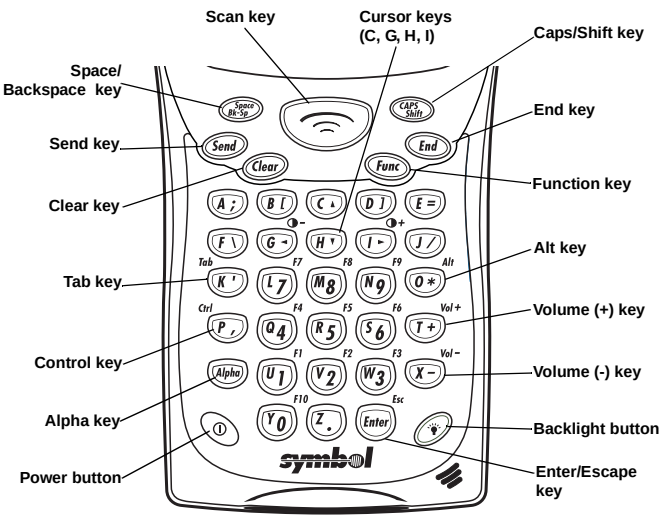
The 28-key keyboard uses an alphanumeric keypad that produces the 26-character alphabet (A-Z), numbers (0-9), and assorted characters. The keyboard is color-coded to indicate which modifier key (Alpha-Numeric, **Func**) to press to produce a particular character or action. The keyboard default is numeric.



Key	Action
Note: [1] Press **Func**, then another key to produce the value or function above that key. See individual key descriptions in this table for additional Function key usage. [2] Press **Func + Ctrl + Clear** to close applications.	
Alpha	Press **Alpha** to toggle between alpha and numeric mode. In alpha mode, pressing a key produces the yellow letter on that key; in numeric mode, pressing a key produces the number in gray.
Backlight	See *Controlling the Backlight* on page 11.
Caps/Shift	Press **Shift** when in alpha mode, then another key to capitalize the letter on that key. Press **Func** + **Shift** to toggle All Caps on and off.
Clear	Press **Clear** to generate an Escape key. This is application dependent but typically closes a window or clears the screen.
Cursor	Press cursor keys to move the cursor left, right, up and down on the screen. Press **Func** + up cursor to raise the volume. Press **Func** + down cursor to lower the volume.
End	Press **End** to generate an End key. This is application dependent but typically moves the cursor to the end of a line
Enter/Escape	Press **Enter** after entering data or a command. Press **Func** + **Enter** to generate an Escape key. This is application dependent but typically closes a window or clears the screen.
Power	See *Starting the Terminal* on page 10.
Scan	Press **Scan** to scan bar codes. (Also use right and left scan triggers.)
Send	The **Send** key is application dependent.
Space/Backspace	Press **Func** + **Bk-Sp** to enter a blank space. Press **Bk-Sp** to erase information entered on the display, one character at a time.
Tab	Press **Tab** to generate a Tab key. This is application dependent but typically moves the cursor from field to field.

Using the 37-Key Keyboard

The 37-key keyboard uses an alphanumeric keypad that produces the 26-character alphabet (A-Z), numbers (0-9), and assorted characters. The keyboard is color-coded to indicate which modifier key (Alpha-Numeric, **Func**) to press to produce a particular character or action. The keyboard default is numeric, producing the gray number or white character on that key.



Key	Action
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Key	Action
Alpha	Press **Alpha** to toggle between alpha and numeric mode. In alpha mode, pressing a key produces the yellow letter on that key; in numeric mode, pressing a key produces the number in gray or character in white.
Backlight	See *Controlling the Backlight* on page 11.
Caps/Shift	Press **Shift** when in alpha mode, then another key to capitalize the letter on that key. Press **Func** + **Shift** to toggle All Caps on and off.
Clear	Press **Clear** to generate an Escape key. This is application dependent but typically closes a window or clears the screen.
Cursor keys: C, G, H, I	Press **Func** + a cursor key to move the cursor up, down, left, and right on the screen.
End	Press **End** to generate an **End** key. This is application dependent but typically moves the cursor to the end of a line
Enter/Escape	Press **Enter** after entering data or a command. Press **Func** + **Enter** to generate an Escape key. This is application dependent but typically closes a window or clears the screen.
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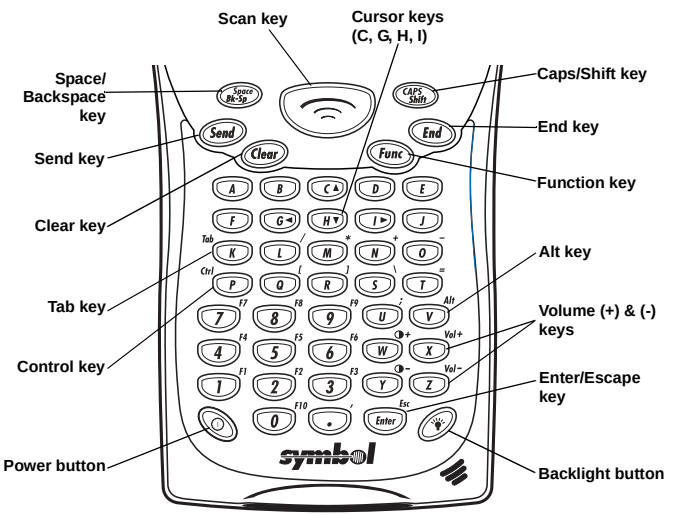
Space/Backspace	Press **Func** + **Bk-Sp** to enter a blank space. Press **Bk-Sp** to erase information entered on the display, one character at a time.
Tab	Press **Tab** to generate a Tab key. This is application dependent but typically moves the cursor from field to field.

Using the 47-Key Keyboard

The 47-key keyboard uses an alphanumeric keypad that produces the 26-character alphabet (A-Z), numbers (0-9), and assorted characters. The keyboard is color-coded to indicate which modifier key (Alpha-Numeric, **Func**) to press to produce a particular character or action. The keyboard default is the key value, producing the gray number or lower case yellow letter on that key.



Key	Action
Note: [1] Press **Func**, then another key to produce the value or function above that key. See individual key descriptions in this table for additional Function key usage. [2] Press **Func + Ctrl + Clear** to close applications.	
Backlight	See *Controlling the Backlight* on page 11.

Key	Action
Caps/Shift	Press **Shift** when in alpha mode, then another key to capitalize the letter on that key. Press **Func** + **Shift** to toggle All Caps on and off.
Clear	Press **Clear** to generate an Escape key. This is application dependent but typically closes a window or clears the screen.
Cursor keys: C, G, H, I	Press **Func** + a cursor key to move the cursor up, down, left, and right on the screen.
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Send	The **Send** key is application dependent.
Space/Back-space	Press **Func** + **Bk-Sp** to enter a blank space. Press **Bk-Sp** to erase information entered on the display, one character at a time.
Tab	Press **Tab** to generate a Tab key. This is application dependent but typically moves the cursor from field to field.

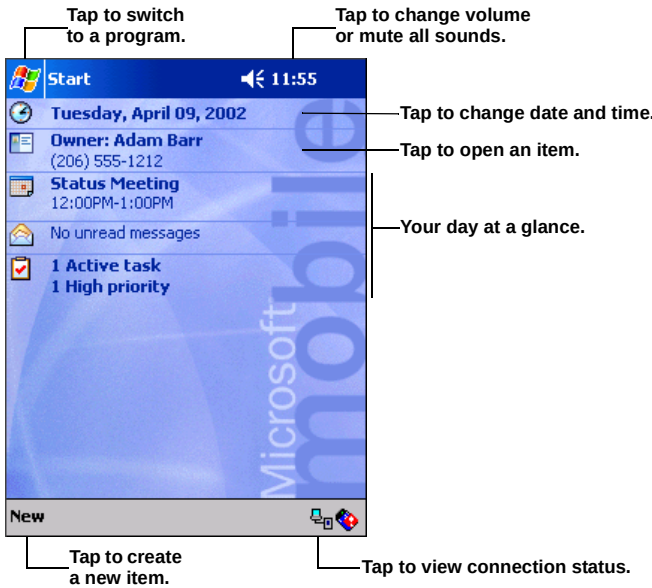
Using the Stylus

Use the stylus as a mouse to select items and enter information.

- **Tap**: Touch the screen once with the stylus to open items and select options.
- **Drag**: Hold the stylus on the screen and drag across the screen to select text and images. Drag in a list to select multiple items.
- **Tap-and-hold**: Tap and hold the stylus on an item to see a list of actions available for that item. On the pop-up menu that appears, tap the action you want to perform.

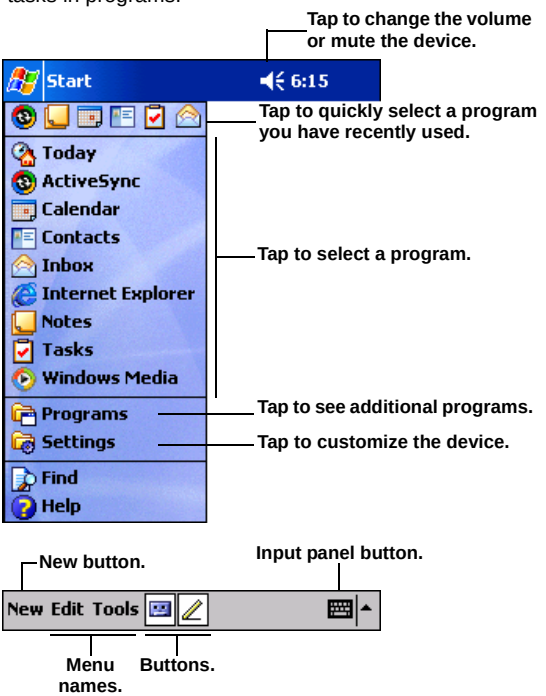
Today Screen

When you turn on your terminal for the first time each day (or after 4 hours of inactivity), the Today screen appears. You can also display it by tapping , then Today. On the Today screen, you can see important information for the day.



Navigation Bar and Command Bar

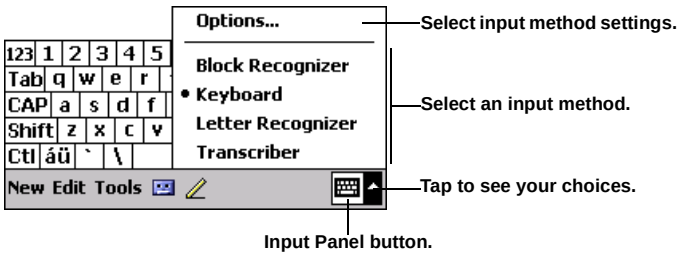
The navigation bar at the top of the screen displays the active program and current time, and allows you to select programs and close screens. The command bar at the bottom of the screen contains menus and buttons to perform tasks in programs.



Input Methods

Enter information in any program by typing with the 28-, 37-, or 47-key keyboard, or use the input panel to type with the soft keyboard, write using Block Recognizer, Letter Recognizer, or Transcriber. In any case, the characters appear as typed text on the screen.

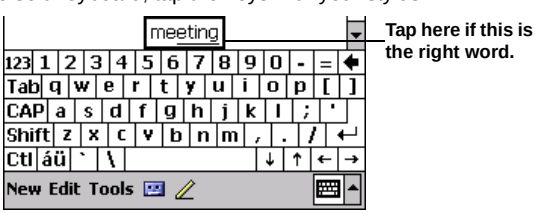
To show or hide the input panel, tap the Input Panel button. Tap the arrow next to this button to view input methods.



When you use the input panel, your terminal anticipates the word you are typing or writing and displays it above the input panel. When you tap the displayed word, it is inserted into your text at the insertion point. The more you use your terminal, the more words it learns to anticipate.

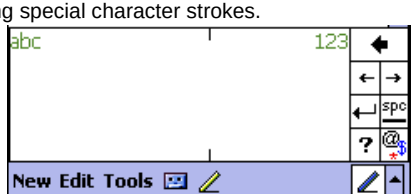
Using the Soft Keyboard

1. Tap the arrow next to the Input Panel button, then *Keyboard*.
2. On the soft keyboard, tap the keys with your stylus.



Using the Block Recognizer

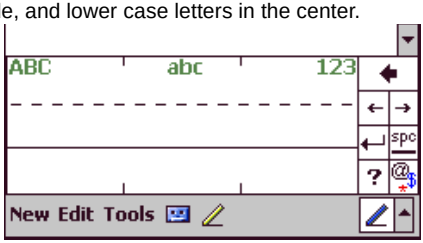
1. Tap the arrow next to the Input Panel button, then *Block Recognizer*.
2. Write a letter in the left side of the box, or a number in the right side, using special character strokes.



When you write a letter, it is converted to typed text on the screen. For instructions on entering Block Recognizer characters, with Block Recognizer open, tap the question mark next to the writing area, or see *Block Recognizer Characters* on page 22.

Using the Letter Recognizer

1. Tap the arrow next to the Input Panel button, then *Letter Recognizer*.
2. Write letters or numbers in the writing area, just as you would on paper. Write capital letters in the left side of the box, numbers in the right side, and lower case letters in the center.



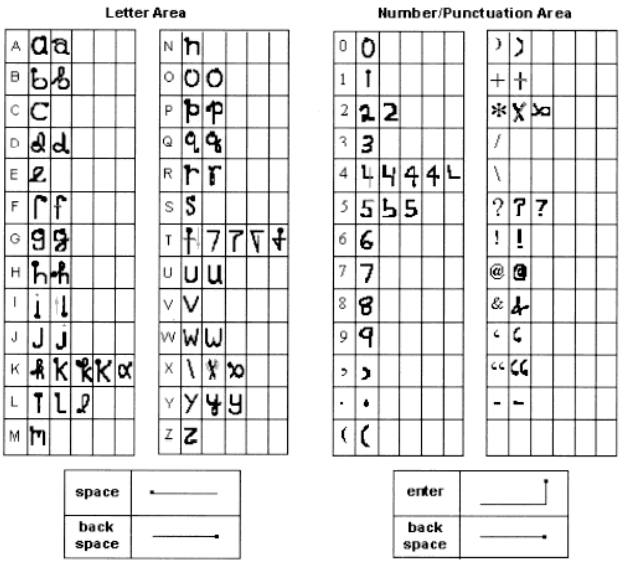
When you write a letter, it is converted to typed text on the screen. For instructions on using Letter Recognizer, with Letter Recognizer open, tap the question mark next to the writing area.

Using the Transcriber

1. Tap the arrow next to the Input Panel button, then *Transcriber*.
2. Write anywhere on the screen. What you write on the screen will be converted to text.

Block Recognizer Characters

The following chart is a partial display of the characters you can write while using the Block Recognizer (the dot on each character is the starting point for writing).

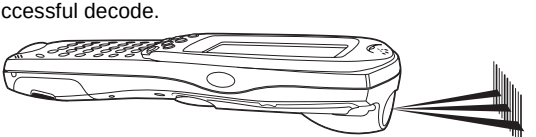


Using the Integrated Laser Scanner

The terminal has an integrated scanner which collects data by scanning bar codes. Before using the terminal to scan bar codes, ensure the scanner is initialized. See the *PDT 8100 Series with Intel XScale™ Technology Product Reference Guide* for information on configuring your terminal for scanning.

To scan bar codes with the terminal:

1. Aim the scanner at the bar code.
2. Press the scan trigger. Ensure the red scan beam covers the entire bar code. The green scan LED lights and a beep sounds to indicate a successful decode.



Resetting Your Terminal

If your terminal stops responding to input, reset it.

Performing a Soft Reset

A soft reset restarts the terminal and saves all stored records and entries. To perform a soft reset press and hold the Power button (for approximately ten seconds) and release it as soon as the screen changes and the terminal begins to reboot.

Caution: Files that remain open during a soft reset may not be retained.

As an *alternate* method to perform a soft reset when the terminal is **on** press the key combinations in the table below.

Keyboard	Keys
28-key	Press Backlight + Down Arrow + Function.
37-key	Press Backlight + Alpha + Function.
47-key	Press Backlight + End + Function.

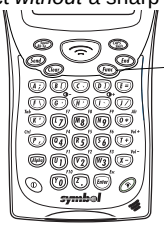
Performing a Hard Reset

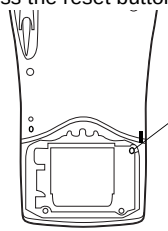
A hard reset also restarts your terminal, but can erase all files and settings not stored in the Flash File System. *Therefore, never perform a hard reset unless a soft reset does not solve your problem.*

Note: You can restore any data previously synchronized with your computer during the next ActiveSync operation. See the *CRD 8100 Quick Reference Guide* or the *PDT 8100 Series with Intel XScale™ Technology Product Reference Guide.*

To perform a hard reset on the terminal:

1. Remove the battery cover.
2. While holding down the Function key, use the stylus (or similar object *without* a sharp tip) to gently press the reset button.





3. Replace the battery cover and press the Power button.
4. As the terminal reboots, the Symbol splash screen displays for about 10 seconds.
5. Realign the screen as described on page 11.

Note: With a hard reset, Formats, Preferences, and other settings are restored to their factory default settings.

Host Communications

The terminal can communicate with a host PC either directly through its communications port using an RS-232 serial cable, the cradle, or wirelessly via the Spectrum24 wireless LANs, CDMA, or GSM. For more information on setting up and performing wireless communications with your terminal, refer to the *PDT 8100 Series with Intel XScale™ Technology Product Reference Guide*.

Using the RS-232 Serial Cable

To connect the RS-232 serial cable for host communication:

1. Connect the RS-232 serial communication cable's connector to the adapter cable's connector.
2. Plug the adapter cable's subminiature connector into the serial communication port on the bottom of the terminal.
3. Plug the other end of the RS-232 serial communication cable into the host PC.
4. Begin host communication as specified by your application.

Using the Cradle

To communicate through the cradle:

1. Ensure all connections between the cradle and the host computer are secure. See the *Quick Reference Guide* that shipped with your cradle for instructions on setting up the cradle.
2. Power on the host computer, the cradle, and the terminal.
3. Insert the terminal into the cradle.
4. Begin host communications as specified by your application.

Communicating with Printers

To print from a standard printer:

1. Attach an RS-232 serial cable to the serial port in the bottom of the terminal.
2. Attach the other end of the cable to the serial port on the printer.
3. Run your application's print function.

To print from an IrDA-compliant printer:

1. Point the IrDA port on the back of the terminal at the IrDA port on the printer, at a maximum distance of 39 inches (1 meter).
2. Run the application's print function.

Note: The terminal must have software configured to communicate with the printer you are using.

Maintaining the Terminal

To maintain your terminal in good working order:

- Do not scratch the screen. Use the supplied stylus or plastic-tipped pens intended for use with a touch-sensitive screen. Never use a pen or pencil or other sharp object on the screen.
- Although your terminal is water and dust resistant, do not expose it to rain or moisture for an extended period of time. Treat your terminal as you would a pocket calculator or other small electronic instrument.
- The touch-sensitive screen of your terminal contains glass. Do not drop your terminal or subject it to strong impact.
- Protect your terminal from temperature extremes. Do not leave it on the dashboard of a car on a hot day, and keep it away from heat sources.
- Do not store or use your terminal in any location that is extremely dusty, damp or wet.
- If the surface of the terminal screen becomes soiled, clean it with a soft cloth moistened with a diluted window-cleaning solution.

Troubleshooting

Problem	Cause	Solution
Terminal does not turn on.	Lithium-ion battery not charged.	Charge or replace the lithium-ion battery in the terminal.
	Lithium-ion battery not installed properly.	Ensure battery is installed properly.
	System crash.	Perform a soft reset. If the terminal still does not turn on, perform a hard reset. See *Resetting Your Terminal* on page 24.
Rechargeable lithium-ion battery did not charge.	Battery failed.	Replace battery. If your terminal still does not operate, try a soft reset, then a hard reset; see *Resetting Your Terminal* on page 24.
	Terminal removed from cradle while battery was charging.	Insert terminal in cradle and begin charging. The lithium-ion battery requires up to 4 hours to recharge fully.
Cannot see characters on display.	Terminal not powered on.	Press the Power button.
Fail to communicate with IrDA printer.	Distance from printer is more than 1 meter (39 inches).	Bring the terminal closer to the printer and attempt communications again.
	Obstruction interfered with communication.	Check the path to ensure no objects were in the way.
	Application is not enabled to run IrDA printing.	Printer support must be included with the application to run IrDA printing on the terminal. See your System Administrator.

Problem	Cause	Solution
During data communication, no data was transmitted, or transmitted data was incomplete.	Terminal removed from cradle or unplugged from host PC during communications.	Replace the terminal in the cradle, or replace the Synchronization cable, and re-transmit.
	Incorrect cable configuration.	See your System Administrator.
	Communication software was incorrectly installed or configured.	Perform setup as described in the *PDT 8100 Series with Intel XScale™ Technology Product Reference Guide*.
No sound is audible.	Volume setting is low or turned off.	Check the System Volume slider in the **Sounds & Reminders** properties dialog box (under **Start/Settings**) to ensure the volume is not turned down.
Terminal turns itself off.	Terminal is inactive.	Your terminal turns off after a period of inactivity. If the terminal is running on battery power, this period can be set from 1 to 5 minutes, in one-minute intervals. If the terminal is running on external power, this period can be set to 1, 2, 5, 10, 15, and 30 minutes. Check the **Power** dialog box (in the **System** tab under **Start/Settings**), and change the setting if you need a longer delay before the automatic shutoff feature activates.
	Battery is depleted.	Replace the battery.
	Battery cover is removed.	Replace the battery door.

Problem	Cause	Solution
Terminal doesn't recognize my handwriting.	Character strokes written incorrectly with the stylus.	If you're using the Block Recognizer input method, characters must be written a certain way. See the *PDT 8100 Series with Intel XScale™ Technology Product Reference Guide* for information about how to write character strokes.
	Character strokes written on the wrong part of the LCD screen.	If you're using the Block Recognizer or Letter Recognizer input method, make the character strokes in the lower character entry area on the screen — not on the display part of the screen.
	Lower- case and upper-case letters, and numbers written on the wrong parts of the LCD screen.	Ensure you are writing letters and numbers in the appropriate section of the writing area.
Tapping the screen buttons or icons does not activate the corresponding feature.	LCD screen not aligned correctly.	Align the screen. Choose **Screen/Align Screen** from the **System** tab under **Start/Settings**, or hold down the Function button and press the Action button.
	The system is hung.	Soft reset the system. To perform a soft reset, see *Resetting Your Terminal* on page 24.

Problem	Cause	Solution
A message appears stating that your terminal memory is full.	Too many files stored on the terminal.	Delete unused memos and records. You can save these records on your computer.
	Too many applications installed on the terminal.	If you have installed additional applications on your terminal, remove them to recover memory. Select **Start**, then **Settings**, and select the **System** tab. Tap **Remove Programs**, select the unused program and tap **Remove.**
Beamed data does not transmit.	Terminals too close together.	Confirm that the terminals are 5" apart, and there is a clear path between the two devices.
	Insufficient room lighting.	Adjust the room lighting or move to a different location.
When receiving beamed data an out of memory message appears.	Not enough free memory available for receiving data.	Your terminal requires at least twice the amount of memory available as the data you are receiving. For example, if you are receiving a 30K application, you must have at least 60K free.

Problem	Cause	Solution
Your terminal does not accept scan input.	Scanning application is not loaded.	Verify that the unit is loaded with a scanning application. See your System Administrator.
	Unreadable bar code.	Be sure the symbol is not defaced.
	Distance between exit window and bar code is incorrect.	Be sure you are within proper scanning range.
	Terminal is not programmed for the bar code.	Be sure the terminal is programmed to accept the type of bar code you are scanning.
	Terminal is not programmed to generate a beep.	If you are expecting a beep on a good decode and don't hear one, check that the application is set to generate a beep on good decode.
	Battery is low.	If the scanner stops emitting a laser beam when you press the trigger, check your battery level. When the battery is low, the scanner shuts off before the terminal notifies you of the low battery condition. **Note**: If the scanner is still not reading symbols, contact your distributor or Symbol Technologies.

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Regulatory Information

All Symbol devices are designed to be compliant with rules and regulations in locations they are sold and will be labeled as required.

Any changes or modifications to Symbol Technologies equipment, not expressly approved by Symbol Technologies, could void the user's authority to operate the equipment.

Ergonomic Recommendations

Caution: In order to avoid or minimize the potential risk of ergonomic injury follow the recommendations below. Consult with your local Health & Safety Manager to ensure that you are adhering to your company's safety programs to prevent employee injury.

- Reduce or eliminate repetitive motion
- Maintain a natural position
- Reduce or eliminate excessive force
- Keep objects that are used frequently within easy reach
- Perform tasks at correct heights
- Reduce or eliminate vibration
- Reduce or eliminate direct pressure
- Provide adjustable workstations
- Provide adequate clearance
- Provide a suitable working environment
- Improve work procedures.

⚠ Laser Devices

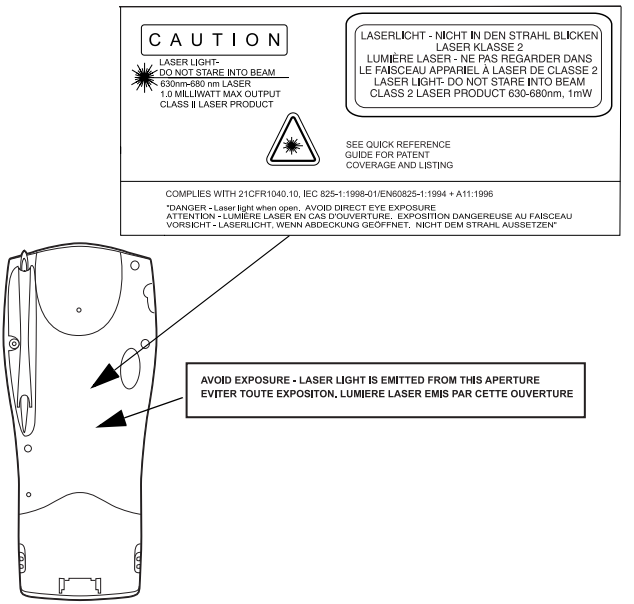
Symbol devices using lasers comply with US 21CFR1040.10, and IEC825-1:1993, EN60825-1:1994+A11:1996. The laser classification is marked on one of the labels on the device.

Class 1 Laser devices are not considered to be hazardous when used for their intended purpose. The following statement is required to comply with US and international regulations:

Caution: Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous laser light exposure.

Class 2 laser scanners use a low power, visible light diode. As with any very bright light source, such as the sun, the user should avoid staring directly into the light beam. Momentary exposure to a Class 2 laser is not known to be harmful.

Scanner Labeling


CAUTION
LASER LIGHT-
DO NOT STARE INTO BEAM
630nm-680 nm LASER
1.0 MILLIWATT MAX OUTPUT
CLASS II LASER PRODUCT
LASERLICHT - NICHT IN DEN STRAHL BLICKEN
LASER KLASSE 2
LUMIÈRE LASER - NE PAS REGARDER DANS
LE FAISCEAU APPAREIL À LASER DE CLASSE 2
LASER LIGHT- DO NOT STARE INTO BEAM
CLASS 2 LASER PRODUCT 630-680nm, 1mW
SEE QUICK REFERENCE
GUIDE FOR PATENT
COVERAGE AND LISTING
COMPLIES WITH 21CFR1040.10, IEC 825-1:1998-01/EN60825-1:1994 + A11:1996
"DANGER - Laser light when open, AVOID DIRECT EYE EXPOSURE
ATTENTION - LUMIÈRE LASER EN CAS D'OUVERTURE. EXPOSITION DANGEREUSE AU FAISCEAU
VORSICHT - LASERLICHT, WENN ABDECKUNG GEÖFFNET. NICHT DEM STRAHL AUSSETZEN"
AVOID EXPOSURE - LASER LIGHT IS EMITTED FROM THIS APERTURE
EVITER TOUTE EXPOSITON, LUMIERE LASER EMIS PAR CETTE OUVERTURE

Laser Labels

In accordance with Clause 5, IEC 825 and EN60825, the following information is provided to the user:

ENGLISH

CLASS 1	CLASS 1 LASER PRODUCT
CLASS 2	LASER LIGHT DO NOT STARE INTO BEAM CLASS 2 LASER PRODUCT

DANISH / DANSK

KLASSE 1	KLASSE 1 LASERPRODUKT
KLASSE 2	LASERLYF SE IKKE IND I STRÅLEN KLASSE 2 LASERPRODUKT

DUTCH / NEDERLANDS

KLASSE 1	KLASSE-1 LASERPRODUKT
KLASSE 2	LASERLICHT NIET IN STRAAL STAREN KLASSE-2 LASERPRODUKT

FINNISH / SUOMI

LUOKKA 1	LUOKKA 1 LASERTUOTE
LUOKKA 2	LASERVALO ÄLÄ TUIJOTA SÄDETTÄ LUOKKA 2 LASERTUOTE

FRENCH / FRANÇAIS

CLASSE 1	PRODUIT LASER DE CLASSE 1
CLASSE 2	LUMIERE LASER NE PAS REGARDER LE RAYON FIXEMENT PRODUIT LASER DE CLASSE 2

GERMAN / DEUTCH

KLASSE 1	LASERPRODUKT DER KLASSE 1
KLASSE 2	LASERSTRAHLEN NICHT DIREKT IN DEN LASERSTRAHL SCHAUEN LASERPRODUKT DER KLASSE 2

HEBREW

רמה 1	מוצר לייזר רמה 1
רמה 2	אור לייזר אין להביט אל תוך הזרם מוצר לייזר רמה 2

ITALIAN / ITALIANO

CLASSE 1	PRODOTTO AL LASER DI CLASSE 1
CLASSE 2	LUCE LASER NON FISSARE IL RAGGIOPRODOTTO AL LASER DI CLASSE 2

NORWEGIAN / NORSK

KLASSE 1	LASERPRODUKT, KLASSE 1
KLASSE 2	LASERLYS IKKE STIRR INN I LYSSTRÅLEN LASERPRODUKT, KLASSE 2

PORTUGUESE / PORTUGUÊS

CLASSE 1	PRODUTO LASER DA CLASSE 1
CLASSE 2	LUZ DE LASER NÃO FIXAR O RAIO LUMINOSO PRODUTO LASER DA CLASSE 2

SPANISH / ESPAÑOL

CLASE 1	PRODUCTO LASER DE LA CLASE 1
CLASE 2	LUZ LASER NO MIRE FIJAMENTE EL HAZ PRODUCTO LASER DE LA CLASE 2

SWEDISH / SVENSKA

KLASS 1	LASERPRODUKT KLASS 1
KLASS 2	LASERLJUS STIRRA INTE MOT STRÅLEN LASERPRODUKT KLASS 2

Power Supply

Note:Use only a Symbol-approved power supply 50-14000-107 output rated 9Vdc and minimum 2A. The power supply is certified to EN60950 with SELV outputs.

Hinweis:Benutzen Sie nur eine Symbol Technologies genehmigt Stromversorgung 50-14000-107 in den Ausgabe: 9Vdc und minimum 2A. Die Stromversorgung ist bescheinigt nach EN60950 mit SELV Ausgaben.

⚠ FCC RF Exposure Guidelines

Handheld Devices:

This device was tested for typical body-worn operations with the holster providing a minimal spacing of 2.0 cm from the body to the back of the terminal/antenna. To maintain compliance with FCC RF exposure compliance requirements, use only belt-clips, holsters, or similar accessories that maintain a 2.0 cm separation distance between the user's body and the back of the terminal, including the antenna. The use of third-party belt-clips, holsters, and similar accessories should not contain metallic components in its assembly. The use of these accessories that do not satisfy these requirements may not comply with FCC RF exposure compliance requirements, and should be avoided.

Hearing Aid Compatibility

This device is marked HAC showing compliance with the applicable requirements of FCC Part 68 and CS03-Part 5.

Radio Frequency Interference Requirements

Tested to comply with FCC Standards
FOR HOME OR OFFICE USE

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna
- Increase the separation between the equipment and receiver
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected
- Consult the dealer or an experienced radio/TV technician for help.

Radio Frequency Interference Requirements - Canada

This device complies with RSS 210 of Industry & Science Canada. Operation is subject to the following two conditions: (1) this device may not cause harmful interference and (2) this device must accept any interference received, including interference that may cause undesired operation.

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

Label Marking: The Term "IC:" before the radio certification only signifies that Industry Canada technical specifications were met.

CE Marking and European Economic Area (EEA)

RLAN's (2.4GHz) for use through the EEA have the following restrictions:

- Maximum radiated transmit power of 100 mW EIRP in the frequency range 2.400 -2.4835 GHz
- France, equipment is restricted to 2.4465 -2.4835 GHz frequency range
- Belgium outside usage, the equipment is restricted to 2.460 -2.4835 GHz frequency range
- Italy requires a user license for outside usage.

Bluetooth for use through the EEA have the following restrictions:

- Maximum radiated transmit power of 10mW EIRP in the frequency range 2.400 -2.4835 GHz
- Belgium outside usage, the equipment is restricted to 2.460 -2.4835 GHz frequency range
- Italy requires a user license for outside usage.

Statement of Compliance

Symbol Technologies, Inc., hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC, 89/336/EEC and 73/23/EEC. Declaration of Conformities may be obtained from http://www2.symbol.com/doc/

Other Countries

Mexico - Restrict Frequency Range to: 2.450 - 2.4835 GHz.
Israel - Restrict Frequency Range to: 2.418 - 2.457 GHz.
Sri Lanka - Restrict Frequency Range to: 2.400 - 2.430 GHz.

The European Economic Area (EEA)

Statement of Compliance for Modems (integrated into terminals)

Symbol Technologies, Inc., hereby, declares that this device is in compliance with the essential requirements and other relevant provisions of Directives 1999/5/EC, 89/336/EEC and 73/23/EEC. Declaration of Conformities may be obtained from http://www2.symbol.com/doc/

The modem is designed to interwork with the following Public Switched Telephone Networks:

Austria, Belgium, Denmark, Finland, France, Germany, Greece, Iceland, Ireland, Italy, Liechtenstein, Luxembourg, Netherlands, Norway, Portugal, Spain, Sweden, Switzerland, United Kingdom.

International Roaming

This device incorporates the International Roaming feature (IEEE 802.11d) which will ensure the product operates on the correct channels for the particular country of use.

Warranty

(A) Seller's hardware Products are warranted against defects in workmanship and materials for a period of twelve (12) months from the date of shipment, provided the Product remains unmodified and is operated under normal and proper conditions. Warranty provisions and durations on software, integrated installed systems, Product modified or designed to meet specific customer specifications ("Custom Products"), remanufactured products, and reconditioned or upgraded products, shall be as provided in the applicable Product specification in effect at the time of purchase or in the accompanying software license. (B) Products may be serviced or manufactured with parts, components, or subassemblies that originate from returned products and that have been tested as meeting applicable specifications for equivalent new material and Products. The sole obligation of Seller for defective hardware Products is limited to repair or replacement (at Seller's option) on a "return to service depot" basis with prior Seller authorization. Shipment to and from Seller will be at Seller's expense, unless no defect is found. No charge will be made to Buyer for replacement parts for warranty repairs. Seller is not responsible for any damage to or loss of any software programs, data or removable data storage media, or the restoration or reinstallation of any software programs or data other than the software, if any, installed by Seller during manufacture of the Product. The aforementioned provisions do not extend the original warranty period of any Product that had either been repaired or replaced by Seller. (C) The above warranty provisions shall not apply to any Product (i) which has been repaired, tampered with, altered or modified, except by Seller's authorized service personnel; (ii) in which the defects or damage to the Product result from normal wear and tear, misuse, negligence, improper storage, water or other liquids, battery leakage or failure to perform operator handling and scheduled maintenance instructions supplied by Seller; (iii) which has been subjected to unusual physical or electrical stress, abuse, or accident, or forces or exposure beyond normal use within the specified operational and environmental parameters set forth in the applicable Product specification; nor shall the above warranty provisions apply to any expendable or consumable items, such as batteries, supplied with the Product. EXCEPT FOR THE WARRANTY OF TITLE AND THE EXPRESS WARRANTIES STATED ABOVE, SELLER DISCLAIMS ALL WARRANTIES ON PRODUCTS FURNISHED HERUNDER INCLUDING ALL IMPLIED WARRANTIES OF MERCHANTABLILTY AND FITNESS FOR A PARTICULAR USE. ANY IMPLIED WARRANTIES THAT MAY BE IMPOSED BY LAW ARE LIMITED IN DURATION TO THE LIMITED WARRANTY PERIOD. SOME STATES OR COUNTRIES DO NOT ALLOW A LIMITATION ON HOW LONG AN IMPLIED WARRANTY LASTS OR THE EXCLUSION OR LIMITATION OF INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR CONSUMER PRODUCTS. IN SUCH STATES OR COUNTIRES, FOR SUCH PRODUCTS, SOME EXCLUSIONS OR LIMITATIONS OF THIS LIMITED WARRANTY MAY NOT APPLY. The stated express warranties are in lieu of all obligations or liabilities on the part of Seller for damages, including but not limited to, special, indirect or consequential damages arising out of or in connection with the use or performance of the Product or service. Seller's liability for damages to Buyer or others resulting from the use of any Product or service furnished hereunder shall in no way exceed the purchase price of said Product or the fair market value of said service, except in instances of injury to persons or property.

Service Information

Before you use the unit, it must be configured to operate in your facility's network and run your applications.

If you have a problem running your unit or using your equipment, contact your facility's Technical or Systems Support. If there is a problem with the equipment, they will contact the Symbol Support Center:

United States[1]	1-800-653-5350 1-631-738-2400	Canada	905-629-7226
United Kingdom	0800 328 2424	Asia/Pacific	+65-6796-9600
Australia	1-800-672-906	Austria/Österreich	1-505-5794-0
Denmark/Danmark	7020-1718	Finland/Suomi	9 5407 580
France	01-40-96-52-21	Germany/Deutchland	6074-49020
Italy/Italia	2-484441	Mexico/México	5-520-1835
Netherlands/Nederland	315-271700	Norway/Norge	+47 2232 4375
South Africa	11-8095311	Spain/España	91 324 40 00 Inside Spain
Sweden/Sverige	84452900		+34 91 324 40 00 Outside Spain
Latin America Sales Support	1-800-347-0178 Inside US +1-561-483-1275 Outside US		
Europe/Mid-East Distributor Operations	Contact local distributor or call +44 118 945 7360		

[1]Customer support is available 24 hours a day, 7 days a week.

For the latest version of this guide and translated versions, go to:
http://www.symbol.com/manuals.

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Symbol Technologies, Inc. One Symbol Plaza, Holtsville, N.Y. 11742-1300